

**GOVERNMENT OF INDIA
AGRICULTURE
LOK SABHA**

UNSTARRED QUESTION NO:2094
ANSWERED ON:02.12.2002
OBJECTIVES OF DIRECTORATE OF MAIZE RESEARCH PUSA
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Will the Minister of AGRICULTURE be pleased to state:

- (a) the objectives behind setting up of Directorate of Maize Research, Pusa, under ICAR alongwith the date of its inception;
- (b) whether the investment made in the DMR commensurate with the achievements made by it;
- (c) if so, its performance in physical and financial terms year-wise, since its inception;
- (d) whether the Government propose to wind up this Directorate in view of its failure in achieving the targets; and
- (e) if so, the steps initiated in this regard so far?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI HUKUMDEO NARAYAN YADAV)

(a) The Directorate of Maize Research (DMR) was established in January 1994. The brief objectives for setting up DMR are:

- i. To collect, acquire, evaluate, catalogue, maintain and share working germplasm of maize and maize relatives with focussed attention on identifying suitable donors for yield components, biotic and abiotic stresses and quality traits. Mobilize genetic diversity from national and international sources for developing new genetic Stocks for distribution to the cooperating centres in different zones.
- ii. To undertake basic, strategic and applied research on germplasm enhancement, development and identification of superior cultivars for quality improvement, tolerance to biotic and abiotic stresses, specialized end-uses, management of post-harvest losses and value addition.
- iii. To coordinate National Maize Research Programme, impart training on maize production and protection technologies and conduct on farm demonstrations through various centres of All India Coordinated Research Project (AICRP) on Maize
- iv. To serve as a core facility for data analysis, documentation and information

(b) Yes Sir.

(c) The investments made in the DMR were commensurate with the achievements made since its inception. During IX Plan the expenditure under plan in AICRP was 1153.00 lakhs and in DMR was 916.00 lakhs. Detailed year-wise expenditure is given in Annexure-I. The activities of Directorate of Maize Research and All India Coordinated Research Project on maize during the IX plan period have resulted in increase in production of maize from 10.82 million tonnes at the beginning of the IX plan i.e. 1997-98 to 13.50 million tonnes in 2001-02. During the period a number of maize cultivars were released for different agroclimatic zones of the country including Quality Protein Maize (QPM), baby corn, sweet corn and pop corn cultivars. Some of important cultivars/hybrids are given in Annexure II.

(d) & (e): Question does not arise sir.

ANNEXURE 1

BUDGET ALLOCATION/EXPENDITURE DURING 9TH PLAN

Directorate of Maize Research (DMR) (Rs. in crores)

S.No. Financial Year Budget allocation
(Revised Estimates) Expenditure

1. 1997-98	2.40	1.57
2. 1998-99	1.07	1.06
3. 1999-2000	1.20	1.22
4. 2000-01	1.66	1.26
5. 2001-02	4.06	4.05

Total 10.39 9.16

ACRIP on Maize (Rs in crores)

S.No. Financial Year Budget allocation
(Revised Estimates) Expenditure

1. 1997-98	- @	1.41
2. 1998-99	2.30	2.30
3. 1999-2000	2.30	2.33
4. 2000-01	2.45	2.87
5. 2001-02	2.62	2.62
Total	9.67	11.53

@ Budget included under DMR's Budget

ANNEXURE II

Important Maize cultivars released and notified DURING IX Plan through All India Coordinated Research Project

Public Sectors :

Name of the Year of Maturity duration Recommended area of adaptation
variety/hybrid release

Shakti-1(composite) 1997 Medium Across the country with high lysine and tryptophan maize having hard endosperm with a normal look will help in providing nutritional diet to infants tribals etc. as well as to make industrial products like Balahar

Prakash 1997 Early Recommended across the country under

rainfed condition suitable for
baby corn

Pusa Early
Hybrid Makka-1 1997 Early A.P., Maharashtra, Karnataka, Tamil Nadu,
Rajasthan, M.P., Gujarat, performs
well at low fertilizer levels

Pusa Early
Hybrid Makka-2 1997 Early A.P., Maharashtra, Karnataka, Tamil
Nadu, Rajasthan, M.P., Gujarat,
performs well at low fertilizer levels

Him 129 1997 Early (85-90 days) H.P., J&K and hills U.P., & N.E.

Vivek Hybrid 4 1999 Early Rajasthan, Gujarat, M.P.

Amar (D 941) Composite 2000 Early Released for Maharashtra, A.P.,
Karnataka, T.N., Rajasthan, M.P.,
and Gujarat for kharif season

JH 3459 2000 Early single cross Released for Delhi, Haryana, Punjab, U.P.

Pusa Early Hybrid
Makka-3 (AH-58) 2000 Early single cross Released for A.P., Maharashtra,
Karnataka, T.N

Vivek Maize Hybrid 9 2000 Early single cross Released for J&K, H.P., Hills of U.P.,
Hills of WB, NEH region, A.P.,
Karnataka, T.N. and Maharashtra

Pusa Early
Hybrid Makka 3 2001 Early (80 -85 days) Single cross hybrid released for
Andhra Pradesh, Maharashtra, Karnataka
and Tamil Nadu.

Shaktiman -1 2001 Full season Quality Protein Maize , released for
Uttar Pradesh & Bihar

Shaktiman -2 2001 Full season Bihar

STATE RELEASES

Jawahar 12 composite 1999 Full season Rajasthan

HMM 1 2000 Full season (100-110) Haryana

HMM-2 2000 Full season Haryana

Vivek-5 2000 Early U.P.

Arvalli Makka-1

(Composite) 2001 Full season Rajasthan, Gujarat, MP., Punjab Haryana
and Western UP

Vivek Hybrid - 5 2001 Early UP

Gujarat Makka -4

(Composite) 2001 Early Gujarat,

NAC 6004(Composite) 2001 Full season Karnataka

BABY CORN

Co-BC1 1999 Baby Corn Tamil Nadu

Private Sector:

3058 (Y 1402K) 1997 Full season
(100-110 days) AP, Karnataka, Maharashtra, Tamil Nadu

Pro 311(4640) 1997 Full-season Across the zones except J&K, U.P.,
H.,P & NEH region under rainfed
conditions

Bio 9681 1997 Full-season Delhi, Punjab, Haryana, Central U.P.,
M.P., Bihar, Assam, Orissa, Rajasthan,
Gujarat

X 1382 (3054) 1997 Full-season Across the country except J&K, U.P.,
H.P. (Bajaura, Kangra, Dhaulakuan)
& NEH region

Pro 312 (4682) 1999 Full-season Andhra Pradesh, Karnataka, Maharashtra,
Tamil Nadu

MMH 69 1997 Medium (90-100 days) A.P., Haryana, T.N, Karnataka, Punjab,
U.P., Delhi, Maharashtra

KH 9451 1997 Medium A.P., Haryana, U.P.,T.N., Maharashtra,
Karnataka, Punjab, Delhi

MMH 133 1997 Early J&K, U.P., H.P., NEH Region, Delhi,
Punjab, Haryana, Central U.P., A.P.,
Karnataka, Maharashtra, Tamil Nadu

X 1123 G (3342) 1999 Early Across the country

X 1174 WV (32A09) 1999 Early Across the country

JKMH 175 (4) 2000 Early Released for Rajasthan, Gujarat, M.P.
for kharif season

Kohinoor 2000 Early Released for A.P. Karnataka,
Maharashtra, Tamil Nadu., Rajasthan,
Gujarat, M.P. for kharif season

Seed tech 2324 2001 Full season Full season released for across the
country